

ABSTRACT

5 **Methane or hydrogen are adsorbed by passing the substance through one or more openings provided in a wall part of a carbon-nanohorn aggregate. The carbon-nanohorn aggregate forms a self-locking carbon adsorbent. The substance passes through the one or more openings in one limited direction from the outside to the inside of the carbon nanohorn aggregate in isothermal or isobaric adsorption.**